

Washington Department of Ecology Everett Smelter Site 2000 - 2001 Cleanup

Details of Cleanup Activities

The Department of Ecology (Ecology) targeted the yards of 28 homes within the Everett Smelter Site for cleanup in 2000 and 2001. Cleanup activities were conducted between August 2000 and March 2001, and again between July and November, 2001. The cleanup was conducted according to the *Everett Smelter Site: Integrated Final Cleanup Action Plan and Final Environmental Impact Statement for the Upland Area*.

This report describes the cleanup actions that were conducted, what arsenic-contaminated soil was not removed and where it remains for the following location:

Property Owner Randy and Kathy Hall

Address: 212 Skyline Drive
 Everett, WA 98201

Snohomish County
State of Washington
Tax Parcel No. # 005203-000-007-00

This property was divided by Ecology into three Decision Units, A and B, as shown on the attached map, for purposes of pre-cleanup sampling and decision-making regarding the depth to which excavation was required. The following is a summary of the work done in the remediation of the property within each of the decision units.

Decision Unit: A

Results of pre-cleanup sampling indicated 18 inches of soil were to be excavated from within this decision unit. Attachment B shows that below 18 inches, results of composite sample analyses are below the remediation levels of 60 parts per million (ppm), and discrete sample analyses are below the remediation level of 150 ppm. However, because the soil below 18 inches contains arsenic levels above the cleanup level of 20 ppm, a geofabric marker was placed.

Field measurements by the Ecology on-site coordinator confirmed that soil was removed to a depth of 18 inches. The existing walkway and stairs between the driveway and the front door were not removed. Along the sides of the existing home and the walkway and

stairs, the excavation was sloped approximately 1:1 away from the foundations to protect the integrity of the structures. At the owners' request, the four evergreen trees in landscaped area in the vicinity of sampling location A-4 and the large evergreen tree to the west of sampling location L-4 were not removed. Within the dripline of the trees, only the existing sod and soil was removed; beyond the dripline, 18 inches were excavated. All other plants and planting beds were excavated and replaced. In order to facilitate excavation, the rock wall running from the concrete retaining wall for 218 Skyline Drive to the southern edge of the driveway and extending to the house was removed. After excavation and backfilling with clean material, the wall was replaced. During excavation, the footing drains at the northeast corner of the house were found to drain into the soil under the driveway. After backfilling the driveway area, the drains were connected to a PVC pipe which was placed under the western edge of the paved driveway. The pipe continues east along to property line to a pop-up drain at the northeast corner of the property next to Skyline Drive. A French drain was installed along the southern edge of the paved driveway, from the base of the stairs to Skyline Drive. The line then runs north under the paved driveway and is connected to the pop-up drain at the northeast corner of the property next to Skyline Drive. After placing a geofabric marker, the Decision Unit was backfilled with clean material, as described in the *Specifications for Everett Residential Soil Remediation*. All pavement damaged by trucks and equipment, as well as the underlying soils, were removed. The excavation was backfilled with crushed rock, compacted and re-paved. After placing the topsoil, sod and shrubs were planted.

Decision Unit: B

Results of pre-cleanup sampling indicated 24 inches of soil were to be excavated from within this decision unit. Attachment B shows that below 24 inches, results of composite sample analyses are below the remediation level of 150 ppm and discrete sample analyses are below the remediation level of 500 ppm. However, because the soil below 24 inches contains arsenic levels above the cleanup level of 20 ppm, a geofabric marker was placed.

Field measurements by the Ecology on-site coordinator confirmed that soil was removed to a depth of 24 inches. The paved patio and carport were not removed. Along the sides of the existing home and the paved carport and patio, the excavation was sloped approximately 1:1 away from the foundations to protect the integrity of the structures. The rock wall located at the western end of the poured-concrete retaining wall and the planting bed in the southwest corner of the property was removed to facilitate access to the adjoining property. At the owners' request, the evergreen trees and shrubs along the northern and western property lines were not removed. Within the dripline of the trees only the existing sod and soil was removed from the top of the root balls; beyond the dripline, 24 inches was removed. A Keystone block wall was built at the western end of the poured-concrete retaining wall to allow restoration of 218 Skyline to its original grade. In order to preserve the tree in 218 Skyline's yard, the western end of the Keystone wall was built over the root ball. Within the dripline of this tree, only the existing sod and soil was removed from the top of the root ball; beyond the dripline, 24 inches was removed. Downspouts from the roof drains were reconnected with plastic

pipe to the footing drains. After placing a geofabric marker, the Decision Unit was backfilled with clean material, as described in the *Specifications for Everett Residential oil Remediation*. After placing the topsoil, sod and shrubs were planted.

January 9, 2002

Dan Cargill
Washington Department of Ecology

DRC:dc

Attachments: A. Site Map
B. Graphs of Arsenic Concentration vs. Depth
C. Explanation of graphs

Note: If the attachments listed above do not accompany this document, copies may be obtained from Ecology. Please contact Central Records at Ecology's Northwest Regional Office (NWRO), at (425) 649-7190 for information on obtaining copies.

cc: Ecology Central Files, NWRO
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